

CLAIMS:

1. System for performing telemetric measurements, comprising
 - a plurality of mobile communication devices (100),
 - each communication device (100) being provided with at least one sensor (110) and a sensor control section (120) for performing measurements,
 - 5 - a cellular communication network structure (1) for said mobile communication devices,
 - a server (SRV) provided with communication means for receiving measurement data from said plurality of mobile communication devices (100), and for sending measurement instructions to respective sensor control sections (120) of said mobile
 - 10 communication devices (100).
2. System according to claim 1, wherein the sensor control sections (120) are programmable by the server (SRV).
- 15 3. System according to claim 1 or 2, wherein the sensor control sections (120) are arranged to perform a measurement on a predetermined point in time.
4. System according to any of the preceding claims, wherein the sensor control sections (120) are arranged to perform a measurement in response to instructions received
- 20 from the server (SRV).
5. System according to any of the preceding claims, wherein the sensor control sections (120) are arranged to transmit measurement results when the respective mobile communication device (100) has established a connection over the network (1).
- 25 6. Mobile communication device for use in a system according to any of the preceding claims, comprising a communication section for communication over a cellular communications network, and at least one sensor and a sensor control section for performing measurements.

7. Method for performing telemetric measurements, comprising
- instructing a sensor control section (120) of a mobile communication device
(100) to perform a measurement, and

5 - retrieving a measurement result from a mobile communication device (100)
through a cellular communication network (1).

8. Method according to claim 7, wherein the instruction for performing a
measurement is at least based on the position of the respective mobile communication device
10 (100) within the cellular communication network (1).

9. Method according to claim 7 or 8, wherein the retrieval of the measurement
data is performed when the respective mobile communication device (100) is engaged in
communication over the cellular communication network (1).

15 10. Method according to claim 9, wherein the measurement data is encoded in the
communication signal.

11. Method for billing communication costs within a cellular communication
20 network comprising awarding credit towards the billing information of a subscriber to a
network communication service on receipt through the communication network of
measurement data performed by a mobile communication device (100) associated with the
subscriber.